

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

## GENERAL NOTES LOAD & RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments

LIVE LOAD: Surcharge = 240 lb/ft<sup>2</sup>

SOIL PARAMETERS:  
 Internal design  $\phi = 34^\circ$ ,  $\gamma = 120$  lb/ft<sup>3</sup>  
 External design  $\phi$  (Retained Backfill) =  $30^\circ$ ,  $\gamma = 120$  lb/ft<sup>3</sup>  
 $\phi$  (Foundation) =  $30^\circ$   
 $K_h = 0.2$

PRECAST CONCRETE PANELS:  
 $f'_c = 4,000$  psi (Concrete compressive strength at 28 days)  
 $f_y = 60,000$  psi (Yield strength of reinforcement)

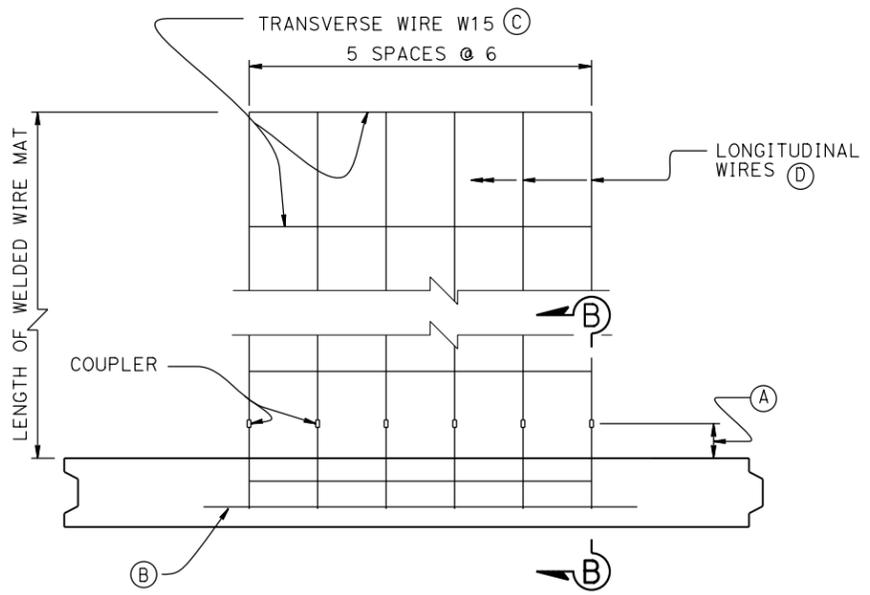
SOIL REINFORCEMENT:  
 Welded wire mats:  $f_y = 65,000$  psi (Yield strength)  
 Coupler:  $f_y = 36,000$  psi (Yield strength)  
 Corrosion rate = 1.1 mils/year

REINFORCED CONCRETE:  
 $f'_c = 3,600$  psi, except as noted  
 (Concrete compressive strength at 28 days)  
 $f_y = 60,000$  psi (Yield strength of reinforcement)

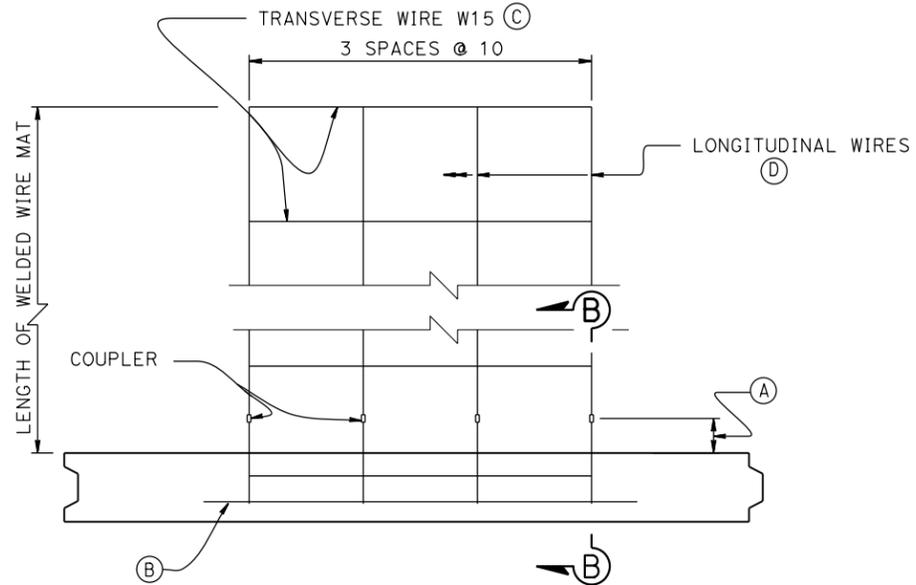
MSE = Mechanically Stabilized Embankment

NOTES:

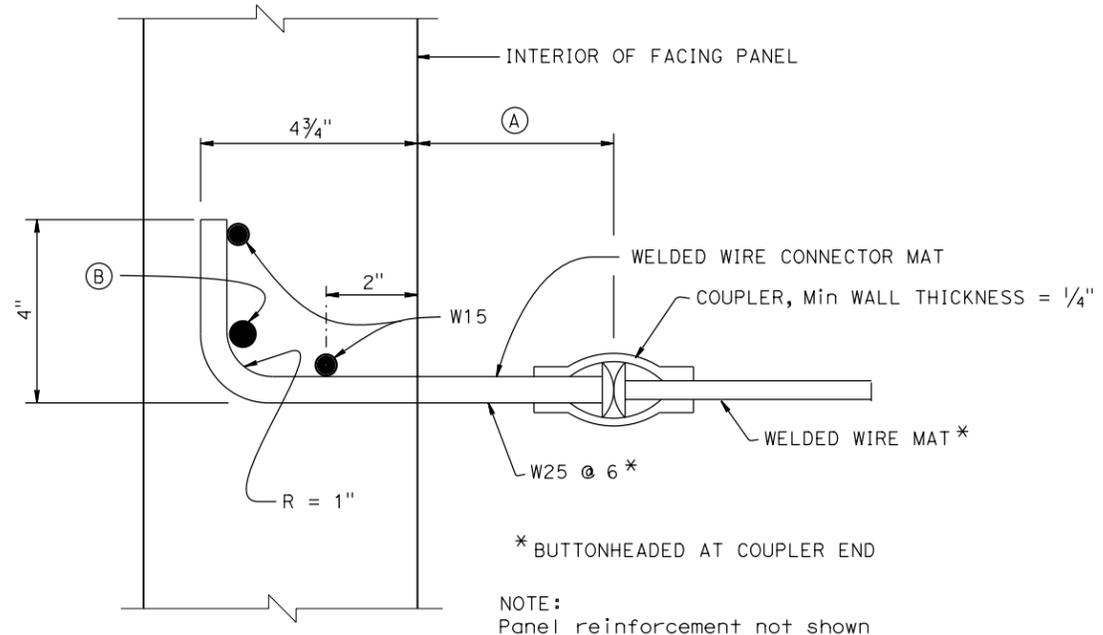
- (A) Distance as required to permit coupler to be swaged
- (B) Place #4 x 3'-2", centered on connector mat, but not welded to it
- (C) All transverse wires size W15 at various spacing as shown elsewhere in plans
- (D) Size of longitudinal wires shown elsewhere in plans



**PLAN OF PANEL WITH SIX WIRE MAT**  
 $1\frac{1}{2}'' = 1'-0''$



**PLAN OF PANEL WITH FOUR WIRE MAT**  
 $1\frac{1}{2}'' = 1'-0''$



**SECTION B-B**  
 $6'' = 1'-0''$

<b>BRIDGE STANDARD DETAILS</b>			<b>STATE OF CALIFORNIA</b>			<b>DIVISION OF ENGINEERING SERVICES</b>			<b>MECHANICALLY STABILIZED EMBANKMENT</b>		
xs13-020-2 <small>FILE NO.</small>	July 2014 <small>APPROVAL DATE</small>	<small>The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.</small>	<b>DEPARTMENT OF TRANSPORTATION</b>			<b>ENGINEERING SERVICES</b>			<b>DETAILS No. 2</b>		
<small>Refer to: <a href="http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html">http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html</a></small>			<small>FILE =&gt; xs13-020-2.dgn USERNAME =&gt; s136236</small>			<small>ORIGINAL SCALE IN INCHES FOR REDUCED PLANS</small>			<small>UNIT: PROJECT NUMBER &amp; PHASE: CONTRACT NO.:</small>		
<small>TIME PLOTTED =&gt; 16:05</small>			<small>DATE PLOTTED =&gt; 14-JUL-2016</small>			<small>REVISION DATES</small>			<small>SHEET OF</small>		
						0 1 2 3			5-19-14 7-12-16		

